USA Ground Operations CIL Sheet AUG 2 3 1999

Critical Item: Switch NASA Part No: None

Criticality Category: 18

Total Quantity: 1

Mfg/Part No:

C&K Components, Inc / 7205K12CWZBE

System:

Facility Water System

	and at						
Find No.	Qty	Area	PMN	Bonette			
0325B3A3, module 6, switch \$1	1	Pad-A		Baseline	Drawing / Sheet		
	<u> </u>	Fau-A	U72-1193	007.00	79K09211 / 95L		
					1		

Function:

Provides capability to energize parallel relays 5340A20K5 and 5340A20K6 to activate 5340 bus-3 power and

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method	Cri
09SY03A-001.026	Corresion contamination and it	Time to Effect	_ Cat
Fail closed	Corrosion, contamination, or failure of internal piece part	Backup panel all valves closed indication	18
	Parallel relays 5340A20K5 and 5340A20K6 would remain energized as long as Hardwire Backup Panel command power was available. 5340 bus-3 power would continuosly energize close solenoid of all RSS water valves resulting in loss of capability to open any RSS water valve. Possible loss of life and/or vehicle during a hazardous condition.	Immediate	

ACCEPTANCE RATIONALE

Design:

- Double pole double throw.
- Locking lever.
- Solder lug with gold contacts.
- Epoxy seal and splashproof bushing.
- Electrical life of 40,000 make-and-break cycles at full load.
- Contact rating 5 amps @ 28 VDC.

Test:

- OMI M2067 requires cycling of FSS/RSS water valves to verify proper operation.
- · OMRSD, File VI requires verification of the operational function of water valves in all modes of operation semiannually and at replacement. (Verifies switch has not failed.)

Inspection:

NA

Failure History:

- · Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The GIDEP failure data interchange was researched and no failure data was found on this component in the critical failure mode.

Operational Use:

Correction Action	
Correcting Action	Timeframe
There is no action which can be taken to mitigate the failure effect.	Since no correcting action is available,
	timeframe does not apply.